Name: _____ TP: _____

HW#27: Midpoint Application and Unit 1 Review: Geometry (Form A
Due Date: Thursday, Oct 2nd, 2014

Example 1: A triangle is located in the (x,y) coordinate plane. The vertices of triangle ABC are A(4, 1), B(-7, 2) and C(0, 5). What are the coordinates for the midpoint of AB?

Goal (what's the goal?)	Required (list givens)	Analysis (what do you need? How will you solve?)	Solve	Paraphrase (check – does your answer make sense?)
find midpoint of $\overline{AB}$	two endpoints of the same line segment	endpoints midpoint formula		

1) A Opposite vertices of a rectangle in the standard (x, y) coordinate plane have coordinates (5, 37) and (17,7), respectively. What are the coordinates of the center of this rectangle?

this means midpoint

Goal (what's the goal?)	Required (list givens)	Analysis (what do you need? How will you solve?)	Solve	Paraphrase (check – does your answer make sense?)

Unit 1 Review

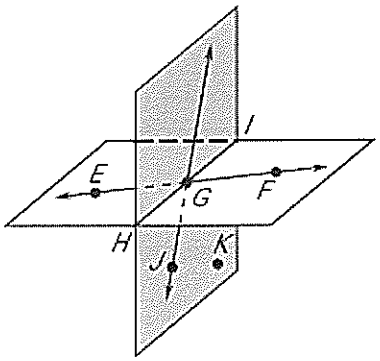
1. Use the diagram to decide whether the given statement is *true* or *false*.

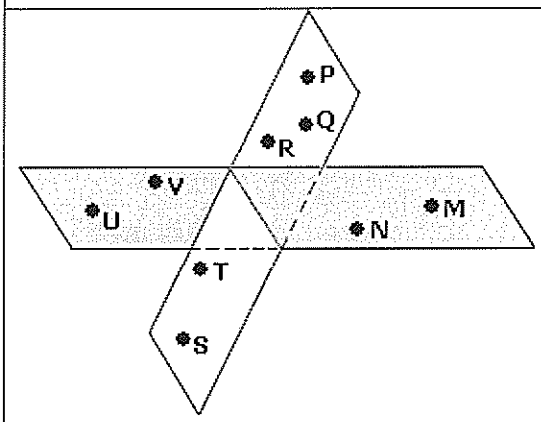
   a. Points E, G, and F are collinear. _____

   b. Points E, G, and F are coplanar. _____

   c. Points *H*, *I*, and *G* are collinear. _____

   d. Points *H*, *I*, and *J* are coplanar. False
   ↳ Why? Answer here





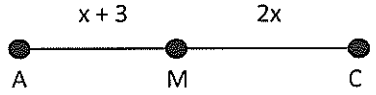
2. Name at least 3 sets of 3 points in the figure above that are coplanar.

   A. U N M

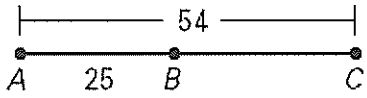
   B. S T Q

   C. _____ _____ _____

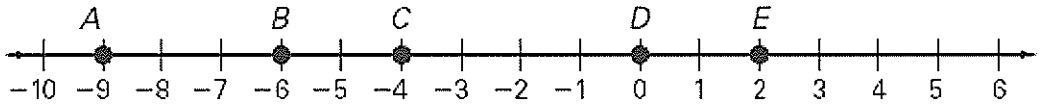
3. If *AC* = 30, what is the value of MC?



4. Find *BC*.



Use the number line below to answer questions 1 – 4.



1. What is the distance, in coordinate units, between points *A* and *B*?

2. What is the distance, in coordinate units, between points *B* and *E*?

3. How much longer is *AD* than *BE*?

4. How much longer is *CD* than *DE*?